PATENT COOPERATION TREATY

From	the	INT	FRN	ΔΤΙ	ONAL	RU	RFAL

To: PCT **Assistant Commissioner for Patents** NOTIFICATION OF ELECTION United States Patent and Trademark Office (PCT Rule 61.2) **Box PCT** Washington, D.C.20231 **ETATS-UNIS D'AMERIQUE** Date of mailing (day/month/year) in its capacity as elected Office 07 April 2000 (07.04.00) Applicant's or agent's file reference International application No. 7253/VB PCT/US99/19204 Priority date (day/month/year) International filing date (day/month/year) 24 August 1998 (24.08.98) 24 August 1999 (24.08.99) **Applicant** STRANG, Janine, Morgens et al 1. The designated Office is hereby notified of its election made: in the demand filed with the International Preliminary Examining Authority on: 21 February 2000 (21.02.00) in a notice effecting later election filed with the International Bureau on: 2. The election was not made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland **Authorized officer**

F. Baechler

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Facsimile No.: (41-22) 740.14.35

M.H

PATENT COOPERATION TREAT

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference		of Transmittal of International Search Report			
7253/VB	ACTION (Form PCT/ISAX)	220) as well as, where applicable, item 5 below.			
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)			
PCT/US 99/19204	24/08/1999	24/08/1998			
Applicant					
THE DOOTED & CAMPLE COMP	ANY 1 3				
THE PROCTER & GAMBLE COMP	ANY et al.				
This International Coards Deport has been	a proposed by this laternational Correlian Aut	thoriby and in transmitted to the configurat			
according to Article 18. A copy is being tr	n prepared by this International Searching Aut ansmitted to the International Bureau.	nonly and is transmitted to the applicant			
This International Search Report consists	of a total of sheets.				
X It is also accompanied by	a copy of each prior art document cited in this	s report.			
Basis of the report					
	international search was carried out on the balless otherwise indicated under this item.	isis of the international application in the			
the international search w Authority (Rule 23.1(b)).	vas carried out on the basis of a translation of	the international application furnished to this			
		nternational application, the international search			
l —	onal application in written form.				
filed together with the inte	ernational application in computer readable for	m			
furnished subsequently to this Authority in written form.					
furnished subsequently to	furnished subsequently to this Authority in computer readble form.				
	bsequently furnished written sequence listing o is filed has been furnished.	toes not go beyond the disclosure in the			
the statement that the info	ormation recorded in computer readable form i	is identical to the written sequence listing has been			
Certain claims were fou	nd unsearchable (See Box I).				
3. Unity of invention is lac	king (see Box II).				
4. With regard to the title,					
the text is approved as su	ubmitted by the applicant.				
the text has been establis	shed by this Authority to read as follows:				
5. With regard to the abstract,					
X the text is approved as su	ibmitted by the applicant.				
	shed, according to Rule 38.2(b), by this Authoric e date of mailing of this international search re				
6. The figure of the drawings to be pub	lished with the abstract is Figure No.				
as suggested by the appl	icant.	X None of the figures.			
because the applicant fail	ed to suggest a figure.				
because this figure better	characterizes the invention.				

INTERNATIONAL SEARCH REPORT

ernational Application No PCT/US 99/19204

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C11D17/00 D06L1/04

D06M23/02

D06L1/02

D06M13/148 D06L1/06 D06M23/16

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\frac{\text{Minimum documentation searched (classification system followed by classification symbols)}}{IPC-7-C11D-D06M-D06L}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.			
A	US 5 789 368 A (YOU ET. AL.) 4 August 1998 (1998-08-04) cited in the application column 43, line 46 column 2, line 55 -column 3, line 64	1,5,8-10			
A	US 4 472 166 A (SANDO ET.AL.) 18 September 1984 (1984-09-18) column 2, line 12 - line 55	1,5			
Α	EP 0 330 979 A (CHEMISCHE FABRIK PFERSEE GMBH) 6 September 1989 (1989-09-06) page 2, line 1 - line 4 page 2, line 32 -page 3, line 46/	1,5			

X Further documents are listed in the continuation of box C.	χ Patent family members are listed in annex.
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filling date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filling date but later than the priority date claimed 	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search 22 December 1999	Date of mailing of the international search report $11/01/2000$
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Ketterer, M

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INTERNATIONAL SEARCH REPORT

PCT/US 99/19204

C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °		Relevant to claim No.
A	DATABASE WPI Week 9031 Derwent Publications Ltd., London, GB; AN 1990-237191'31! XP002126502 B. MELNIKOV ET. AL.: "Treatment of textil material" & SU 1 516 553 A (IVAN CHEM. TECH. INST.), 23 October 1989 (1989-10-23) abstract	1,5
А	WO 96 30471 A (THE PROCTER & GAMBLE COMPANY) 3 October 1996 (1996-10-03) page 1, line 12 -page 3, line 8 & US 5 630 847 A cited in the application	1,5,9,10
Α	WO 97 32004 A (THE PROCTER & GAMBLE COMPANY) 4 September 1997 (1997-09-04) page 3, paragraph 3 -page 7, paragraph 1	1,5,9,10
P,A	EP 0 867 556 A (DAI-ICHI KOGYO SEIYAKU CO., LTD.) 30 September 1998 (1998-09-30) page 2, line 28 - line 47	1,5

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INTERNATIONAL SEARCH REPORT

mation on patent family members

PCT/US 99/19204

Patent doo cited in sear		t	Publication date		Patent family member(s)		Publication date
US 5789	368	Α	04-08-1998	BR	9707077	A	20-07-1999
				CA	2243539	Α	31-07-1997
				EP	0894160	Α	03-02-1999
				JP	11503058	Т	23-03-1999
				WO	9727354	Α	31-07-1997
US 4472	 166	A	18-09-1984	JP	1053393	В	14-11-1989
				JP	1569560	С	10-07-1990
				JP	59076967	Α	02-05-1984
EP 3309	- 79	Α	06-09-1989	DE	3807030	Α	14-09-1989
				ΑT	95255	T	15-10-1993
				DE	58905718	D	04-11-1993
				DK	95889	Α	05-09-1989
				JP	2084556	Α	26-03-1990
				US	5021264	Α	04-06-1991
				US	5021263	Α	04-06-1991
SU 1516!	553	Α	23-10-1989	NONE			
WO 96304	 471	A	03-10-1996	US	5630847	Α	20-05-1997
				BR	9607895	Α	29-06-1999
				CA	2216849	Α	03-10-1996
				EP .	0817881	Α	14-01-1998
				JP	11502885	T	09-03-1997
			·	US	5942484	Α	24-08-1999
WO 9732	004	Α	04-09-1997	EP	0885291	Α	23-12-1998
				JP	11505569	T	21-05-1999
				US	5840675	Α	24-11-1998
EP 8675		Α	30-09-1998	JP	10266077	Α	06-10-1998
				CN	1194823		07-10-1998

XP-002126502

AN - 1990-237191 [31]

A - [001] 014 03- 252 253 32& 331 402 408 409 466 470 472 481 483 541 542 547 551 560 566 597 598 664 667

AP - SU19874230202 19870414

CPY - IVAN-R

DC - A11 E12 F06

DR - 1713-U

FS - CPI

IC - D06M1/02

IN - BELOKUROVA O A; KIRILLOVA M N; MELNIKOV B N

KS - 0229 1982 2386 2482 2483 2486 2499 2500 2528 2601 2604 2628 2657 2821

MC - A03-A05A A11-C05 A12-S05R F01-H06 F03-C04

M3 - [01] J0 J012 J1 J171 J2 J271 K0 K4 K431 M220 M222 M223 M224 M225 M226 M231 M232 M233 M272 M281 M312 M321 M332 M343 M349 M381 M391 M416 M620 M782 M903 M904 Q130 Q322 R023; 9031-D8401-M; 1327-U 0502-U

- [02] C500 C730 C800 C801 C802 C804 C806 C807 M411 M782 M903 M904 M910 Q130 Q322 R023; R01713-M; 1327-U 0502-U

PA - (IVAN-R) IVAN CHEM TECH INST

PN - SU1516553 A 19891023 DW199031 000pp

PR - SU19874230202 19870414

XA - C1990-102892

XIC - D06M-001/02

- AB SU1516553 The basic fibre is preliminarily impregnated with an aq. soln. contg. 4-6 g/l of the proposed auxiliary disodium salt of sulphosuccinic acid mono-ester (based on synthetic fatty alcohols from the second unsaponified 8-20C fraction) and then dried. As previously, the method involves treatment with liq. ammonia and an auxiliary textile cpd.
 - Typically, after impregnation the fabric is dried and the impregnating with liq. ammonia for approx. 1 sec. The ammonia is then removed by hot or cold water prior to drying the fabric at 90 deg.C. Tests show that the proposed and previous method give results (expressed for warp/weft):coefft. of stiffness, 3.7/3.0 and 9.5/7.2; fold restoration after crumpling 145 and 87 deg.; wear resistance 1245 and 691 cycles; shrinkage 0/0 and 2.8/-1.8%.
 - USE/ADVANTAGE Reduced stiffness and Increased wear-resistance, crease-resistance and stability of linear dimensions in fabric composed of viscose fibre or its mixt. with cotton and all are all obtd. from the proposed treatment of textile material, esp. in the finishing industry. Bul. 39/23.10.89 (3pp Dwg.No.0/0)

CN - 9031-D8401-M R01713-M

DRL - 0502-U 1327-U

IW - TREAT TEXTILE MATERIAL LIQUID AMMONIA PRELIMINARY TREAT SOLUTION DI SODIUM SALT SULPHO SUCCINIC ACID MONO ESTER IMPROVE QUALITY FIBRE

IKW - TREAT TEXTILE MATERIAL LIQUID AMMONIA PRELIMINARY TREAT SOLUTION DI SODIUM SALT SULPHO SUCCINIC ACID MONO ESTER IMPROVE QUALITY FIBRE

INW - BELOKUROVA O A; KIRILLOVA M N; MELNIKOV B N

NC - 001

OPD - 1987-04-14

ORD - 1989-10-23

PAW - (IVAN-R) IVAN CHEM TECH INST

/iPO

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PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

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Applicant's o	or agent's file reference	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
	I application No.	International filing date (day/monti	//year) Priority date (day/month/year)
PCT/US9	• •	24/08/1999	24/08/1998
		national classification and IPC	
C11D17/		Talloria dia salamatan ara ma	
Applicant			
THE PRO	OCTER & GAMBLE COM	1PANY et al.	
1. This i	nternational preliminary exa transmitted to the applicar	amination report has been preparent according to Article 36.	d by this International Preliminary Examining Authority
2. This f	REPORT consists of a total	of 7 sheets, including this cover s	heet.
b (:	een amended and are the	basis for this report and/or sheets on 607 of the Administrative Instruct	ne description, claims and/or drawings which have containing rectifications made before this Authority ions under the PCT).
3. This	report contains indications	relating to the following items:	
	_	, ,	
	☐ Basis of the report		
11	☐ Priority	of a single with respect to movelty, in	ventive step and industrial applicability
111			ventive step and industrial applicability
IV V	☐ Lack of unity of inve		novelty, inventive step or industrial applicability;
l vi	☐ Certain documents		
VII	☐ Certain defects in the	ne international application	
VIII		s on the international application	
Date of su	bmission of the demand	Date o	f completion of this report
21/02/20	000	11.09.	2000
Name and preliminar	I mailing address of the internal	tional Author	ized officer
	 European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 52 	Diebo	old, A
	Fav. +49 89 2399 - 4465		10 No. 140 80 2300 8442

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US99/19204

I. Basis of the report

1. This report has been drawn on the basis of (substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.):

		•	
	Des	cription, pages:	
	1-19)	as originally filed
	Clai	ms, No.:	
	O I G	, 110	
	1-10)	as originally filed
	Dra	wings, sheets:	
	1/1		as originally filed
_	T		e resulted in the cancellation of:
۷.	ıne	amendments nav	e resulted in the cancellation of.
		the description,	pages:
		the claims,	Nos.:
		the drawings,	sheets:
3.		This report has be considered to go	een established as if (some of) the amendments had not been made, since they have been beyond the disclosure as filed (Rule 70.2(c)):
4.	Add	ditional observation	ns, it necessary:

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US99/19204

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes:

Claims 1-10

No:

Claims

inventive step (IS)

Yes: Claims 1-10 No: Claims

Industrial applicability (IA)

Yes:

Claims 1-10

Claims

No:

2. Citations and explanations

see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

INTERNATIONAL PRELIMINARY

EXAMINATION REPORT - SEPARATE SHEET

Item V:

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement.

1) Reference is made to the following documents D1 and D2.

D1 = US-A-5,789,368

D2 = WO-A-97/32004

The document D3 was not cited in the International Search Report.

D3 = WO-A-93/23603

2) Problem

The present invention pertains to compositions and articles containing these compositions which are designed to clean and refresh delicate fabrics in an in-home non-immersion cleaning and refreshing process while minimizing shrinkage of the fabrics.

Solution

This problem has been solved by a composition for treating fabrics, comprising:

- a) a fabric shrinkage reducing composition selected from the group consisting of ethylene glycol, all isomers of propanediol, butanediol, pentanediol, hexanediol and mixtures thereof, and
- b) a liquid cleaning / refreshment composition containing water and a member selected from the group consisting of surfactants, perfumes, preservatives, bleaches, auxiliary cleaning agents, organic solvents and mixtures thereof.

The fabric shrinkage reducing composition and the liquid cleaning / refreshment composition are releasably absorbed in a substrate in a weight ratio of from 1:2 to 1:5.

It has been found that the fabric shrinkage composition when used with a cleaning / refreshment composition within defined ratios, can reduce the amount of shrinkage that occurs during an in-home, non-immersion cleaning and refreshing process which is conducted in a clothes dryer.

INTERNATIONAL PRELIMINARY InterEXAMINATION REPORT - SEPARATE SHEET

Also provided in this invention are a non-immersion cleaning / refreshment process using this composition, a kit containing the necessary items to conduct the process of this invention, and a sheet for releasably absorbing the composition of this invention.

Novelty / Inventive step

Documents D1 and D2 pertain to a fabric dry cleaning or refreshment process which is conducted in a hot air clothes dryer using a vapour-releasing containment bag. Vapour is vented from the bag during use, thereby minimizing wrinkling in the clothes being cleaned, and removing malodours therefrom. Additionally, D1 and D2 also encompass a liquid cleaning / refreshment composition as defined in the present claims 2-4, releasably contained in an absorbent carrier substrate in sheet form, as well as a kit containing the necessary items to conduct the cleaning process. However, these documents D1 and D2 are completely silent concerning the presence of a fabric shrinkage reducing composition selected from organic compounds as defined in present claim 1.

D3 relates to a process for dry-cleaning soiled fabric articles, conducted in a rotary clothes dryer at an elevated temperature, in a closed system such as a sealed plastic bag, wherein said system also includes a fabric-cleaning substrate (i.e. a sheet) impregnated with a gelled solvent-based dry-cleaning composition. Said gelled composition consists essentially of 40-95% water, 0.25-5% of a gelling agent, 2-32% of a water miscible organic solvent and 1-10% surfactant (see claim 1). Useful organic gelling agents can include waxy polyethylene glycols (PEG). The major portion of the organic solvent will be a glycol ether, even if liquid polyethylene glycols, ethylene glycol or propylene glycol can be employed as co-solvents. However, the present invention differs from D3 in that the substrate contains more fabric shrinkage reducing compounds (from 16.7% to 33%) than in D3 (from 0.25% to 5%).

Therefore, the subject-matter of claims 1-10 complies with the requirement of Article 33(2) PCT.

With regard to inventive step, there is no indication, nor incentive in the available prior art which discloses or even suggests to the person skilled in the art, that the mixture of certain organic compounds (ethylene glycol, all isomers of propanediol,

butanediol, pentanediol, hexanediol and mixtures thereof) with a cleaning / refreshment composition within defined ratios would reduce the amount of shrinkage that occurs during an in-home, non-immersion cleaning and refreshing process. In D3, the polyethylene glycols, ethylene glycol or propylene glycol are used as a gelling agent or as co-solvents. Additionally, D3 is not concerned by the problem of minimizing shrinkage of the fabrics. It has been shown in the present application, that such a mixture exhibits better results in terms of shrinkage reduction when compared to garments treated in an identical process using only the cleaning / refreshment composition. Moreover, it has been shown that using the shrinkage reducing composition on one substrate and the cleaning / refreshment composition on a second substrate does not provide the shrinkage reduction observed when the two compositions are releasably absorbed onto the same substrate.

Accordingly, the present claims 1-10 involve an inventive step, and the subject-matter of claims 1-10 complies with the requirement of Article 33(3) PCT.

3) Claims 1-10 meet the requirement under Article 33(4) PCT, because the present invention is industrially applicable in the field of detergents.

Item VII:

Certain defects in the international application.

The following defects in the form or contents of the international application have been noted:

- 1) The units of measure "mils" (pages 4 and 18) and temperature "°F" (page 18) are not additionally expressed in terms of the units stipulated by Rule 10.1(a) and (b) PCT.
- 2) References to US documents should have been mentioned with the US patent publication numbers instead of the following co-pending US provisional patent application numbers "08/789,171" (page 7), "60/077,556" (page 9) and "09/042,418" and "60/077,955" (page 12).

Item VIII:

Certain observations on the international application.

The following observations on the clarity of the claims, description and drawings or

INTERNATIONAL PRELIMINARY InterEXAMINATION REPORT - SEPARATE SHEET

on the question whether the claims are fully supported by the description, are made:

- 1) The organic compounds "polyethylene glycol" and "1-octanol" recited in the preferable embodiment of claims 1, 5 and 10 do not fall within the general definition of the fabric shrinkage reducing composition, which is selected from the group of ethylene glycol, all isomers of propanediol, butanediol, pentanediol, hexanediol and mixtures thereof.
- 2) The dependencies of the following claims are not correctly expressed.

Claims 6 and 7: These two claims refer back to claims 1-5. However, claims 1-4 are concerned with a composition for treating fabrics, while claims 6 and 7 define a process. Thus, said claims 6 and 7 should only refer back to claim 5.

Claim 8: The fabric shrinkage reducing composition and the liquid cleaning / refreshment composition have been defined in claims 1-4, while claims 5-7 are concerned with a process.

Claim 9: This claim refers back to claims 1-8. However, claims 1-4 and 5-7 are concerned, respectively, with a composition for treating fabrics and a process, while claim 9 pertains to a kit. Thus, said claim 9 should only refer back to claim 8.

- 3) The term "preferably" used in claims 1, 2, 4, 5 and 10 introduces ambiguity. Since it has no limiting effect on the scope of the claims, the feature following this expression is to be regarded as entirely optional (Guidelines C-III, 4.6 PCT). Thus, for the sake of clarity and in order to precisely define the scope of said claims, the "preferable" embodiments should have been specified as mandatory features of additional dependent claims.
- 4) The use of the expression "incorporated herein by reference" in connection with prior art documents introduces ambiguity (Guidelines C-II, 4.17 PCT).